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L4: Entry 2 of 3

File: JPAB

Jan 7, 1986

PUB-NO: JP361001369A
DOCUMENT-IDENTIFIER: JP 61001369 A
TITLE: PRODUCTION OF GREEN LAVER FLOUR

PUBN-DATE: January 7, 1986

INVENTOR-INFORMATION:

NAME

COUNTRY

HANOU, TSUKASA

ASSIGNEE-INFORMATION:

NAME

COUNTRY

HANOU TSUKASA

APPL-NO: JP59122859

APPL-DATE: June 13, 1984

US-CL-CURRENT: 426/575

INT-CL (IPC): A23L 1/337

ABSTRACT:

PURPOSE: To obtain easily green laver flour of high quality from inexpensive *Ulva sublittoralis* Segawa, etc. collectable in a large amount as a raw material and rationalize the drying step at the same time, by finely cutting broad layer of the family *Ulvaceae* into the form of *Enteromorpha prolifera* J. Agardh previously before crushing the broad laver.

CONSTITUTION: Broad laver of the family *Ulvaceae*, e.g. *Ulva sublittoralis* Segawa, *Ulva pertusa* Kjellman or *Enteromorpha compressa* Greville, is washed with water and finely cut to $\leq 1\text{mm}$ width. The resultant finely cut laver is then dehydrated and dried to give the form of *Enteromorpha prolifera* J. Agardh. The resultant laver is then crushed and subjected to air elutriation to afford the aimed green laver flour.

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L6: Entry 14 of 19

File: JPAB

Mar 11, 1997

PUB-NO: JP409067266A
DOCUMENT-IDENTIFIER: JP 09067266 A
TITLE: INHIBITOR OF HYALURONIDASE

PUBN-DATE: March 11, 1997

INVENTOR-INFORMATION:

NAME

COUNTRY

EHATA, SHINYA

TAKITA, YATSUHIRO

MIYAHARA, TSUNEO

ASSIGNEE-INFORMATION:

NAME

COUNTRY

LION CORP

APPL-NO: JP08154468

APPL-DATE: June 14, 1996

INT-CL (IPC): A61 K 35/80; A61 K 7/00; A61 K 7/00; A61 K 7/48

ABSTRACT:

PROBLEM TO BE SOLVED: To obtain an inhibitor of hyaluronidases, having excellent inhibiting activities against hyaluronidases and excellent in safety.

SOLUTION: This inhibitor of hyaluronidases comprises an extract of a seaweed belonging to the genera Monostroma, Ulva, Enteromorpha, Bryopsis, Caulerpa and Codium which are green algae, the genera Analipus, Cladosiphon, Nemacystis, Ecklonia, Lessonia, Macrocystis, Fucus, Ascophyllum and Durvillea which are brown algae, the genera Porphyra, Gelidium, Beckerella, Pterocladia, Gloiopeltis, Eucheuma, Gigartina, Iridaea, Chondrus, Rhodymenia and Ceramium which are red algae as an active ingredient. Thereby, an active substance contained in the extract and inhibiting the hyaluronidases has suppressing actions on the decomposition of hyaluronic acid, is thereby capable of activating dermal cells and preventing the skin from aging and manifests excellent effects on the prevention of the occurrence of wrinkles and skin roughening and the impartment of the smooth, moist and fresh skin. The extract is blended in a dermal preparation for external use to thereby provide the inhibitor of hyaluronidases suitable as the dermal preparation for external use, etc., having high safety. The inhibitor maintains wettability of joints, is useful as even an therapeutic agent, etc., for the joints and further as an antiinflammatory and an antiallergic agent and can be used for various applications such as medicines, quasi-drugs, cosmetics, etc.

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L6: Entry 19 of 19

File: DWPI

Jun 13, 1991

DERWENT-ACC-NO: 1991-192941

DERWENT-WEEK: 199621

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TITLE: Use of algae extracts in anti:radical compsns. - for pharmaceutical, cosmetic, food, or agricultural use

INVENTOR: BRIAND, X

PATENT-ASSIGNEE:

ASSIGNEE

CODE

SECMA SOC ENGRAIS COMPOSES MINERAUX

SECMN

SECMA SOC ENGRAIS C

SECMN

PRIORITY-DATA: 1989FR-0016138 (December 6, 1989)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
WO 9107946 A	June 13, 1991		000	
US 5508033 A	April 16, 1996		006	A61K035/80
FR 2655268 A	June 7, 1991		000	
EP 504236 A1	September 23, 1992	F	028	A61K007/48
JP 05504583 W	July 15, 1993		028	C09K015/34
EP 504236 B1	March 23, 1994	F	011	A61K007/48
DE 69007626 E	April 28, 1994		000	A61K007/48
ES 2054485 T3	August 1, 1994		000	A61K007/48

DESIGNATED-STATES: CA JP US AT BE CH DE DK ES FR GB GR IT LU NL SE AT BE CH DE DK ES
FR GB GR IT LI LU NL SE AT BE CH DE DK ES FR GB GR IT LI LU NL SE

CITED-DOCUMENTS:6.Jnl.Ref; DE 2651617 ; EP 271133 ; FR 2563414 ; JP 60013709 ; JP
63160567 ; WO 8402652 ; 06Jnl.Ref

APPLICATION-DATA:

of the composition, wherein said algae is selected from the group consisting of Fucus vesiculosus, Ascophyllum nodosum, Pelvetia canaliculata, Sargassum muticum, Ceramium rubrum and Palmaria palmata.

WO 9107946A

CHOSEN-DRAWING: Dwg.0/0 Dwg.0/0

TITLE-TERMS: ALGAE EXTRACT ANTI RADICAL COMPOSITION PHARMACEUTICAL COSMETIC FOOD AGRICULTURE

DERWENT-CLASS: B04 C03 D13 D21 K07

CPI-CODES: B04-B02B3; B12-A07; B12-J05; C04-B02B3; C12-A07; C12-J05; D08-B09A; D09-E; K07-A02;

CHEMICAL-CODES:

Chemical Indexing M1 *01*

Fragmentation Code

M423 M781 M903 P941 P942 P943 Q254 Q262 Q444 Q624

V500 V550

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1991-083480

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
US 5508033A	August 5, 1992	1992US-0859703	Cont of
US 5508033A	April 21, 1994	1994US-0231956	Cont of
US 5508033A	February 14, 1995	1995US-0388639	
FR 2655268A	December 6, 1989	1989FR-0016138	
EP 504236A1	December 6, 1990	1990WO-FR00886	
EP 504236A1	December 6, 1990	1991EP-0900845	
EP 504236A1		WO 9107946	Based on
JP 05504583W	December 6, 1990	1990WO-FR00886	
JP 05504583W	December 6, 1990	1991JP-0501292	
JP 05504583W		WO 9107946	Based on
EP 504236B1	December 6, 1990	1990WO-FR00886	
EP 504236B1	December 6, 1990	1991EP-0900845	
EP 504236B1		WO 9107946	Based on
DE 69007626E	December 6, 1990	1990DE-0607626	
DE 69007626E	December 6, 1990	1990WO-FR00886	
DE 69007626E	December 6, 1990	1991EP-0900845	
DE 69007626E		EP 504236	Based on
DE 69007626E		WO 9107946	Based on
ES 2054485T3	December 6, 1990	1991EP-0900845	
ES 2054485T3		EP 504236	Based on

INT-CL (IPC): A01N 3/02; A01N 31/16; A23L 3/34; A23L 3/3472; A23L 3/3481; A61K 7/00; A61K 7/06; A61K 7/48; A61K 35/80; C09K 15/34

ABSTRACTED-PUB-NO: EP 504236B
BASIC-ABSTRACT:

The use of aq. extracts of algae to prepare pharmaceutical, cosmetic, food, or agricultural compsns. having an anti-radical activity, esp. anti-superoxide radical activity, is new. The aq. extracts themselves may be used, or at least one active material extracted from this, or obtd. synthetically, esp. fucols, polyfucols, diphloretols, polyphloretols, bifuhalols, polyfuhalols, and phloretols.

Pref. the algae used may be brown, green, or red, including Fucus, Pelvetia, Ascophyllum, Himanthalia, Laminaria, Sargassum, Chondrus, Mastocarpus, or Girgatina, Palmaria, Porphyra, Ceramium, Gracilaria, Ulva, Enteromorpha, and Codium. The pref. alga is Fusus vesiculosus. The extraction is effected by conventional means, e.g. by aq. extraction at controlled pH and polar solvent extraction, opt. followed by concn., drying, or reverse osmosis, or chromatography.

USE - The compsns. have a particular use in protecting skin cells and may be formulated as radioprotecting, antisclerodermic compositions, and to treat burns, lesions, cutaneous dryness and atonia, or to treat puriginous dermatoses.
ABSTRACTED-PUB-NO:

US 5508033A
EQUIVALENT-ABSTRACTS:

Utilisation of macroscopic algae extracts obtained by extraction in liquid phase, or of at least one active substance is isolated from such an extract or obtained by chemical synthesis, selected in particular among the fucols, polyfucols, diphloretols, polyphloretols, bifuhalols, polyfuhalols, phloretols, for the preparation of pharmaceutical, cosmetic, food or agricultural compositions with anti-radical activity, towards the superoxide radical.

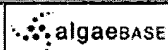
A method of providing anti-radical activity towards a superoxide radical in a composition, comprising admixing to the composition an effective amount of at least one algae extract to increase the antiradical activity towards the superoxide radical

Factsheets for Green Seaweeds (phylum Chlorophyta)

| [Site](#) | [Handbook](#) | [Genera](#) | [Greens](#) | [Reds](#) | [Browns](#) | [GIS](#) |

The SeaPlant Handbook

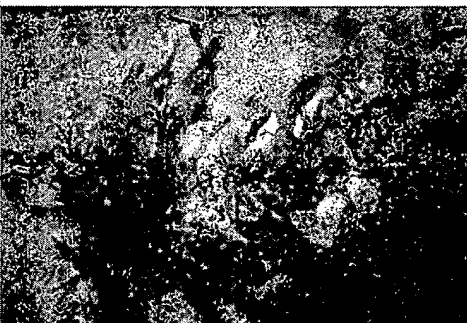
SuriaLink

Genus: *Enteromorpha* Trade name: enteromorpha Symbol: EN**Greens
Genera**[Acetabularia](#)[Capsosiphon](#)[Caulerpa](#)[Codium](#)[Dictyosphaeria](#)[Enteromorpha](#)[Monostroma](#)[Scytosiphon](#)[Ulva](#)**Go to
Community**[AgriInd\(AI\)](#)[Alginates\(AL\)](#)[Art\(AT\)](#)[Polymer\(BP\)](#)[Carragar\(CA\)](#)[Environ\(ET\)](#)[Farming\(FM\)](#)[Habitats\(HA\)](#)[SciTech\(ST\)](#)[Seaveggie\(SV\)](#)[Seaweed\(SW\)](#)[SuriaLink\(SL\)](#)[Wellbeing\(WB\)](#)**Authority:** Linknom. cons. **Type species:** *Enteromorpha intestinalis* (Linnaeus) Nees**Commercial species:** *compressa* (COP), *clathrata* (CLA), *grevillei* (GRE), *intestinalis* (INS), *linza* (LIZ), *lomentaria* (LOM), *nitidum* (NIT), *prolifera* (PRL) & spp.**Common names:** Awo-nori, Bo-ao-nori, Bô-awonori, Bright green nori, Dark Green Nori, Darmtang, Flacher Darmtang, Green nori, Hai-cai, Hallow-green nori, Hime-awonori, Hu tai, Hulu`ilio, Kawa-awonori, Kotsubu-awonori, Light Green Nori, Limu 'Ele'ele, Líneáil ghorm, Link confetti, Lumot, Ohashi nori, Rupgan, Ruprupu, Stone hair, Stone Hair, Suji-aonori, Suji-awnori, Tahalib, Tai tyau**Classification:** Eukaryota, Phylum Chlorophyta, Order Ulvales, Family Ulvaceae.**AlgaeBase names and species:** 169 names - 42 current as of 12-2001.Comprehensive lists of [common names](#), [generic & specific names](#) can be found at AlgaeBase. >>Click here<< for SuriaLink's policy on names.**Description**

In preparation.

Habitat

In preparation.

***Enteromorpha compressa* (Linnaeus)
Greville**Photo courtesy of:
Guiry, M.D. & E. Nic Dhonncha. 2001. AlgaeBase. World Wide Web electronic publication www.algaebase.org (December 10, 2001))[picture gallery](#) [picture links](#)

Enteromorpha production click country to go to GIS	Tons per annum wild harvest	Tons per annum cultivated
<u>Bangladesh</u>	n/a	n/a
<u>Burma</u>	n/a	n/a
<u>France</u>	n/a	n/a
<u>Indonesia</u>	n/a	n/a
<u>Japan</u>	n/a	1,400
<u>North Korea</u>	n/a	538
<u>South Korea</u>	n/a	500
<u>Portugal</u>	n/a	n/a
<u>Philippines</u>	n/a	n/a
<u>USA</u>	n/a	n/a
Total	2,438	2,438

Production

Approximate annual production figures from recent years are as above.

Biology & Agronomy

In preparation.

Chemistry

In preparation.

Processing

We have several monographs in progress covering analytical procedures post-harvest treatment and process technology. Check the [processing index](#) for available web pages and monographs.

Products, Uses & Applications

List of species' uses and community affiliations

<i>Genus</i>	GenID	SpID	<i>Species</i>	Uses	Communities
<i>Enteromorpha</i>	EN	CLA	<i>clathrata</i>	FH	SV, WB
<i>Enteromorpha</i>	EN	COP	<i>compressa</i>	FH, MD	SV, WB
<i>Enteromorpha</i>	EN	GRE	<i>grevillei</i>	FH	SV, WB
<i>Enteromorpha</i>	EN	INS	<i>intestinalis</i>	FH, MD	SV, WB
<i>Enteromorpha</i>	EN	LIZ	<i>linza</i>	FH	SV, WB
<i>Enteromorpha</i>	EN	PRL	<i>prolifera</i>	FH, MD	SV, WB
<i>Enteromorpha</i>	EN	SPP	<i>spp.</i>	FH, MD	SV, WB

click to relevant uses or communities on the index/legend table below>>>

[AnimalFeed\(FA\)](#) [HumanFood\(FH\)](#) [FoodIngredients\(FI\)](#) [Fertilisers\(FF\)](#)
[IndustrialApps\(IA\)](#) [Medicines\(MD\)](#) [FoodProcessAids\(PA\)](#)
[PersonalCare\(PC\)](#) [Wellbeing\(WB\)](#)



to uses

to communities



[Alginates\(AL\)](#) [AgriInd\(AI\)](#) [Biopolymer\(BP\)](#) [Carragar\(CA\)](#)
[Farming\(FM\)](#) [Seavegetables\(SV\)](#) [Seaweed\(SW\)](#) [Wellbeing\(WB\)](#)

Community associations

Enteromorpha is most strongly associated with the [Seavegetables](#) and [Wellbeing](#) communities.

| [Site](#) | [Handbook](#) | [Genera](#) | [Greens](#) | [Reds](#) | [Browns](#) | [GIS](#) |

Please read our notes concerning information sources and seaplant names

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